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The Society of the
Plastics Industry, Inc.

SPI

Monthly Statistical Report-Resins

355 Lexington Avenue
New York, New York 10017
(212) 573-9400

FOR THE MONTH AND PERIOD ENDED OCTOBER, 1984

PRODUCTION AND SALES & CAPTIVE USE OF THERMOSETTING AND THERMOPLASTIC RESINS

ISSUED BY THE
COMMITTEE ON RESIN STATISTICS

AS COMPILED BY ERNST & WHINNEY, NEW YORK, N. Y.

1984 ISSUE NO. 10

RELEASE DATE: DECEMBER 19, 1984

NOTE TO USERS:

PLEASE USE THE FOLLOWING LEGEND WHEN QUOTING DATA FROM THIS REPORT.

SOURCE: SPI COMMITTEE ON RESIN STATISTICS AS COMPILED BY ERNST & WHINNEY

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The figures published in this report are reflective of the relevant segment of the industry. In accordance with SPI policy and regulations of the Committee on Resin Statistics, figures will not be published which tend to identify, directly or indirectly, a participant's individual data. Any figures withheld to avoid disclosure are identified by the letter "D" at the applicable line or space of the report. A line will be identified by a "D" if one company has more than 65% of that line, or if there are less than four companies reporting on that line.

PART 300/400
NON-PART 400/500

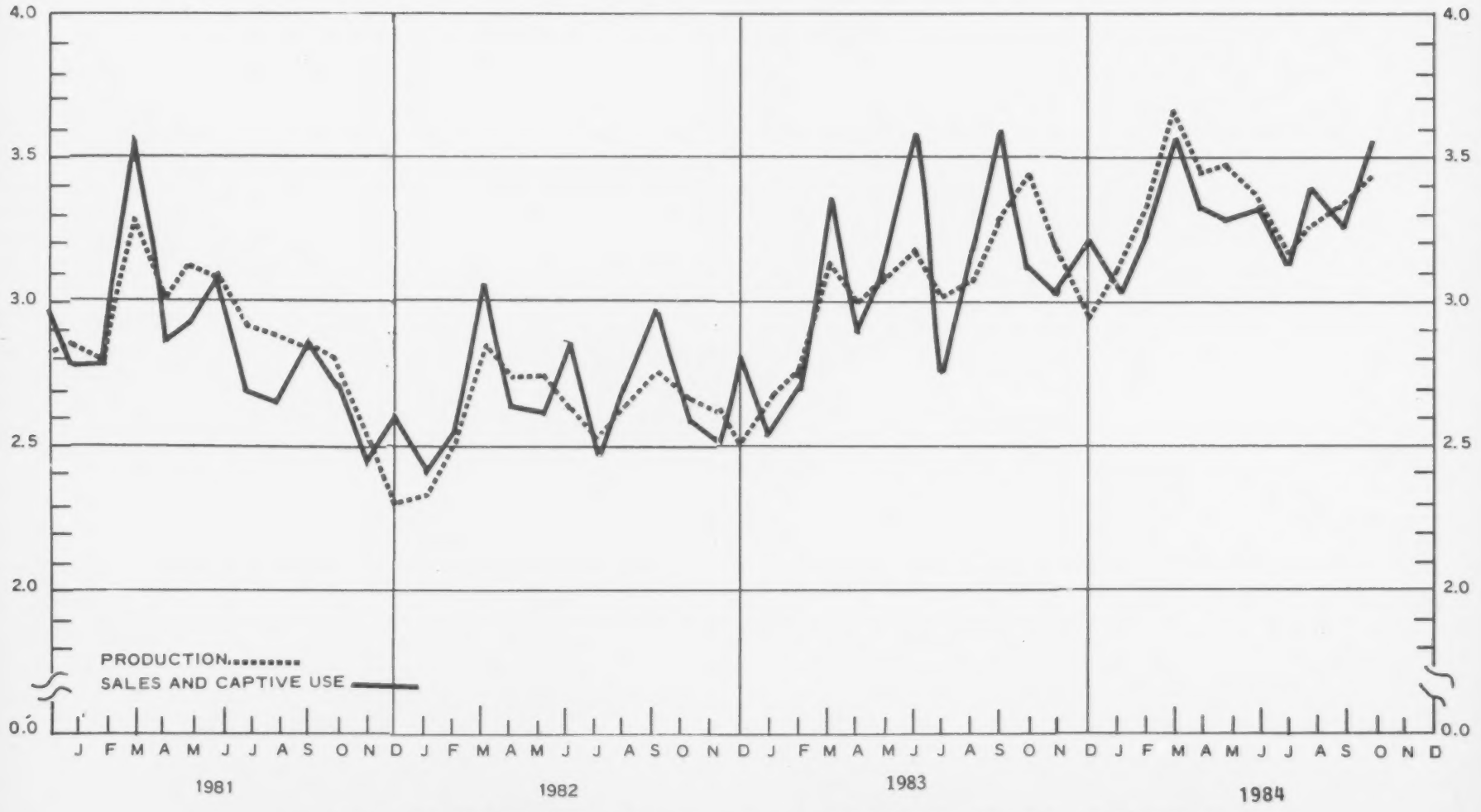
MONTHLY STATISTICAL REPORT

THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

PRODUCTION AND SALES & CAPTIVE USE OF PLASTIC RESINS

(In billion of pounds)

OCTOBER, 1984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PRODUCTION.....
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COMPILED BY ERNST & WHINNEY, NEW YORK, N. Y. FOR SPI'S COMMITTEE ON RESIN STATISTICS (CRS).

SECTION I

MONTHLY STATISTICAL REPORT

THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

(In thousands of pounds, dry weight basis)(1)

OCTOBER 1984

RESIN KIND	SALES & CAPTIVE USE						PRODUCTION					
	OCTOBER			YEAR-TO-DATE			OCTOBER			YEAR-TO-DATE		
	1984	1983	% Change	1984	1983	% Change	1984	1983	% Change	1984	1983	% Change
EPOXY RESINS, TOTAL	35,629	27,482	+29.6	329,223	274,766	+19.8	33,259	29,301	+13.5	330,342	277,755	+18.9
POLYESTER (UNSATURATED) RESINS, TOTAL	104,679	99,229	+5.5	1,045,795R	897,711	+16.5	101,193	100,918	+0.3	1,049,110R	910,347	+15.2
UREA RESINS, TOTAL	108,488	104,875	+3.4	1,011,049R	981,045	+3.1	109,657	105,083	+4.4	1,019,806R	984,841	+3.6
MELAMINE RESINS, TOTAL	16,665	16,782	-0.7	168,228R	152,295	+10.5	19,991	17,254	+15.9	178,551R	152,334	+17.2
PHENOLIC & OTHER TAR ACID RESINS, TOTAL	237,654	239,653	-0.8	2,144,191R	2,115,380	+1.4	235,454	239,511	-1.7	2,141,687R	2,076,581	+3.1
THERMOSETTING RESINS, TOTAL	503,115	488,021	+3.1	4,698,486R	4,421,197	+6.3	499,554	492,067	+1.5	4,719,496R	4,401,858	+7.2
LOW-DENSITY POLYETHYLENE 0.940 & BELOW, TOTAL	778,134	644,482	+20.7	6,884,395R	6,623,436	+3.9	706,950	725,686	-2.6	7,028,843	6,676,399	+5.3
HIGH-DENSITY POLYETHYLENE ABOVE 0.940, TOTAL	550,437	481,407	+14.3	4,942,029R	4,760,850	+3.8	534,817	539,043	-0.8	5,137,199R	4,767,754	+7.7
POLYPROPYLENE, TOTAL	427,608	358,677	+19.2	4,010,304R	3,678,225	+9.0	394,560	415,092	-4.9	4,129,743	3,667,797	+12.6
ACRYLONITRILE-BUTADIENE-STYRENE (ABS) RESINS, TOTAL	92,906	95,687	-2.9	924,335	837,913	+10.3	87,009	101,582	-14.3	949,339	816,310	+16.3
STYRENE-ACRYLONITRILE (SAN) RESINS, TOTAL	6,526	8,107	-19.5	76,410	75,835	+0.8	7,798	8,629	-9.6	85,251	79,520	+7.2
OTHER STYRENE BASED POLYMERS, TOTAL 40% or more styrene	19,899	20,045	-0.7	203,535	191,394	+6.3	20,193	19,989	+1.0	219,663	175,151	+25.4
POLYSTYRENE, TOTAL	338,894	295,816	+14.6	3,244,296	3,000,649	+8.1	341,083	329,247	+3.6	3,220,993	2,929,380	+10.0
STYRENE BUTADIENE LATEXES, TOTAL Carboxylated, 45% styrene content and over	D	D		D	D		D	D		D	D	
OTHER STYRENE BASED LATEXES, TOTAL 50% or more styrene including styrene butadiene latexes not carboxylated (4)	63,232	62,960	+0.4	631,372	585,728	+7.8	59,624	63,592	-6.2	628,319R	585,611	+7.3
NYLON RESINS, TOTAL	33,136	31,595	+4.9	328,304R	268,629	+22.2	32,472	32,009	+1.4	343,758	259,440	+32.5
POLYVINYL CHLORIDE & COPOLYMERS (DRY RESIN CONTENT), TOTAL	583,252	467,722	+24.7	5,549,984	5,205,377	+6.6	570,919	537,804	+6.2	5,607,471	5,191,294	+8.0
VINYL ACETATE MONOMER FOR POLYVINYL ACETATE, TOTAL	57,338	59,325	-3.3	590,982	579,652	+2.0	* 57,338	* 59,325	-3.3	* 590,982	* 579,652	+2.0
POLYVINYL ALCOHOL, TOTAL #	12,377	11,635	+6.4	122,019	112,692	+8.3	14,219	10,583	+34.4	124,955	108,695	+15.0
OTHER VINYL RESINS, TOTAL	15,620	17,102	-8.7	153,842	146,124	+5.3	15,374	15,726	-2.2	156,588	151,986	+3.0
THERMOPLASTIC POLYESTER, TOTAL	71,185	72,593	-1.9	704,214	647,680	+8.7	79,253	74,055	+7.0	744,181R	641,249	+16.1
THERMOPLASTIC RESINS, TOTAL	3,050,544	2,627,153	+16.1	28,366,021R	26,714,184	+6.2	2,921,609	2,932,362	-0.4	28,967,285R	26,630,238	+8.8
GRAND TOTAL	3,553,659	3,115,174	+14.1	33,064,507R	31,135,381	+6.2	3,421,163	3,424,429	-0.1	33,686,781R	31,032,096	+8.6

(1) = Except phenolic resins which are reported on a gross weight basis

(4) = Includes Styrene Butadiene Latexes

= Includes imputed data

Compiled by ERNST & WHINNEY, New York, N.Y., for SPI'S COMMITTEE ON RESIN STATISTICS (CRS)

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*These data equal that reported for Sales & Captive Use to more closely represent the ratio between Total Production and Total Sales & Captive Use. Actual production of PVAc is significantly higher than that shown here.

SPI

SECTION I

MONTHLY STATISTICAL REPORT

THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

(In metric tons, dry weight basis)(1)

CRS

OCTOBER 1984

RESIN KIND	SALES & CAPTIVE USE						PRODUCTION					
	OCTOBER			YEAR-TO-DATE			OCTOBER			YEAR-TO-DATE		
	1984	1983	% Change	1984	1983	% Change	1984	1983	% Change	1984	1983	% Change
EPOXY RESINS, TOTAL	16,161	12,466	+29.6	149,334	124,633	+19.8	15,086	13,291	+13.5	149,842	125,989	+18.9
POLYESTER (UNSATURATED) RESINS, TOTAL	47,482	45,010	+5.5	474,370R	407,199	+16.5	45,901	45,776	+0.3	475,873R	412,931	+15.2
UREA RESINS, TOTAL	49,210	47,571	+3.4	458,608R	444,999	+3.1	49,740	47,665	+4.4	462,581R	446,721	+3.6
MELAMINE RESINS, TOTAL	7,559	12	-0.7	76,308R	69,080	+10.5	9,068	7,826	+15.9	80,990R	69,098	+17.2
PHENOLIC & OTHER TAR ACID RESINS, TOTAL	107,799	108,706	-0.8	972,599R	959,531	+1.4	106,801	108,641	-1.7	971,463R	941,931	+ 3.1
THERMOSETTING RESINS, TOTAL	228,211	221,365	+3.1	2,131,219R	2,005,442R	+6.3	226,596	223,199	+1.5	2,140,749R	1,996,670	+7.2
LOW-DENSITY POLYETHYLENE 0.940 & BELOW, TOTAL	352,959	292,335	+20.7	3,122,741R	3,004,371	+3.9	320,670	329,169	-2.6	3,188,262	3,028,395	+5.3
HIGH-DENSITY POLYETHYLENE ABOVE 0.940, TOTAL	249,677	218,365	+14.3	2,241,690R	2,159,507	+3.8	242,591	244,508	-0.8	2,330,218R	2,162,639	+7.7
POLYPROPYLENE, TOTAL	193,962	162,695	+19.2	1,819,062R	1,668,432	+9.0	178,971	188,284	-4.9	1,873,239	1,663,702	+12.6
ACRYLONITRILE-BUTADIENE-STYRENE (ABS) RESINS, TOTAL	42,142	43,403	-2.9	419,277	380,076	+10.3	39,467	46,077	-14.3	430,617	370,276	+16.3
STYRENE-ACRYLONITRILE (SAN) RESINS, TOTAL	2,960	3,677	-19.5	34,659	34,399	+0.8	3,537	3,914	-9.6	38,670	36,070	+7.2
OTHER STYRENE BASED POLYMERS, TOTAL 40% or more styrene	9,026	9,093	-0.7	92,323	86,816	+6.3	9,159	9,067	+1.0	99,638	79,44	+25.4
POLYSTYRENE, TOTAL	153,721	134,181	+14.6	1,471,603	1,361,085	+8.1	154,714	149,345	+3.6	1,461,033	1,328,758	+10.0
STYRENE BUTADIENE LATEXES, TOTAL Carboxylated, 45% styrene content and over	D	D		D	D		D	D		D	D	
OTHER STYRENE BASED LATEXES, TOTAL 50% or more styrene including styrene butadiene latexes not carboxylated (4)	28,683	28,558	+0.4	286,388	265,684	+7.8	27,046	28,845	-6.2	285,004R	265,631	+7.3
NYLON RESINS, TOTAL	15,030	14,331	+4.9	148,918R	121,849	+22.2	14,729	14,519	+1.4	155,928	117,681	+32.5
POLYVINYL CHLORIDE & COPOLYMERS (DRY RESIN CONTENT), TOTAL	264,561	212,157	+24.7	2,517,456	2,361,143	+6.6	258,967	243,946	+6.2	2,543,532	2,354,756	+8.0
VINYL ACETATE MONOMER FOR POLYVINYL ACETATE, TOTAL	26,008	26,911	-3.3	268,068	262,928	+2.0	* 26,008	* 26,910	-3.3	* 268,068	* 262,928	+2.0
POLYVINYL ALCOHOL, TOTAL #	5,615	5,278	+6.4	55,347	51,117	+8.3	6,450	4,800	+34.4	56,679	49,304	+15.0
OTHER VINYL RESINS, TOTAL	7,085	7,757	-8.7	69,782	66,281	+5.3	6,975	7,133	-2.2	71,028	68,940	+3.0
THERMOPLASTIC POLYESTER, TOTAL	32,289	32,928	-1.9	319,429	293,786	+8.7	35,949	33,591	+7.0	337,558R	290,869	+16.1
THERMOPLASTIC RESINS, TOTAL	1,383,718	1,191,669	+16.1	12,866,743R	12,117,474	+6.2	1,325,233	1,330,108	-0.4	13,139,474R	12,079,397	+8.8
GRAND TOTAL	1,611,929	1,413,034	+14.1	14,997,962R	14,122,916	+6.2	1,551,829	1,553,307	-0.1	15,280,223R	14,076,067	+8.6

(1) = Except phenolic resins which are reported on a gross weight basis

(4) = Includes Styrene Butadiene Latexes

= Includes imputed data

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For the purpose of this table, one metric ton equals 2,204.6 pounds. On a monthly basis, the calculation of metric tons from thousands of pounds may not agree precisely due to rounding.

*These data equal that reported for Sales & Captive Use to more closely represent the ratio between Total Production and Total Sales & Captive Use. Actual production of PVAc is significantly higher than that shown here.

MONTHLY STATISTICAL REPORT

THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

THERMOSETTING RESINS (In thousands of pounds, dry weight basis) OCTOBER 1984

RESIN KIND & USE	SALES & CAPTIVE USE						PRODUCTION					
	OCTOBER			YEAR-TO-DATE			OCTOBER			YEAR-TO-DATE		
	1984	1983	% Change	1984	1983	% Change	1984	1983	% Change	1984	1983	% Change
EPOXY RESINS, TOTAL	35,629	27,482	+29.6	329,223	274,766	+19.8	33,259	29,301	+13.5	330,342	277,755	+18.9
Total Exports	5,793	2,201	+163.2	37,245	27,665	+34.6						
Total Domestic	29,836	25,281	+18.0	291,978	247,101	+18.2						
Bonding & Adhesives	1,974	1,221	+61.7	17,151	13,338	+28.6						
Flooring, Paving & Exposed Aggregate	1,714	1,711	+0.2	15,163	15,675	-3.3						
Protective Coatings	13,295	11,272	+17.9	132,526	109,492	+21.0						
Fiber Reinforced Laminates & Composites, Total	6,981	6,589	+5.9	75,696	60,212	+25.7						
FRL&C for Printed Wiring Board	4,471	4,749	-5.9	52,921	43,556	+21.5						
All Other FRL&C	2,510	1,840	+36.4	22,775	16,656	+36.7						
Tooling, Casting & Molding Resins	3,057	2,170	+40.9	26,880	23,123	+16.2						
All Other Uses	2,815	2,318	+21.4	24,562	25,261	-2.8						
POLYESTER (UNSATURATED) RESINS, TOTAL	104,679	99,229	+5.5	1,045,795R	897,711	+16.5	101,193	100,918	+0.3	1,049,110R	910,347	+15.2
Total Exports	440	668	-34.1	6,705	8,524	-21.3						
Total Domestic	104,239	98,561	+5.8	1,039,090R	889,187	+16.9						
General Purpose Resins, Total	93,309	88,296	+5.7	930,100R	794,027	+17.1						
General Purpose — Thixotropic	40,665	41,005	-0.8	420,652R	371,914	+13.1						
General Purpose — Press Molding	20,164	14,852	+35.8	162,170	116,991	+38.6						
General Purpose — All Other	32,480	32,439	+0.1	347,278R	305,122	+13.8						
Flame Retardant Resins	2,082	1,849	+12.6	19,351	16,382	+18.1						
Chemical Resistant Resins	8,848	8,416	+5.1	89,639R	78,778	+13.8						
Chemical Resistant Isophthalic Resins	6,253	5,508	+13.5	62,738R	52,665	+19.1						
All Other Chemical Resistant Resins	2,595	2,908	-10.8	26,901R	26,113	+3.0						
Reinforced Plastics, Total	79,517	76,341	+4.2	797,282R	684,999	+16.4						
Non-Reinforced Plastics, Total	24,722	22,220	+11.3	241,808R	204,188	+18.4						

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R = Revision

MONTHLY STATISTICAL REPORT

THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

THERMOSETTING RESINS (In thousands of pounds, dry weight basis)(1) OCTOBER 1984

RESIN KIND & USE	SALES & CAPTIVE USE						PRODUCTION					
	OCTOBER			YEAR-TO-DATE			OCTOBER			YEAR-TO-DATE		
	1984	1983	% Change	1984	1983	% Change	1984	1983	% Change	1984	1983	% Change
UREA RESINS, TOTAL	108,488	104,875	+3.4	1,011,049R	981,045	+3.1	109,657	105,083	+4.4	1,019,806R	984,841	+3.6
MELAMINE RESINS, TOTAL	16,665	16,782	-0.7	168,228R	152,295	+10.5	19,991	17,254	+15.9	178,551R	152,334	+17.2
UREA & MELAMINE RESINS, TOTAL	125,153	121,657	+2.9	1,179,277R	1,133,340	+4.1	129,648	122,337	+6.0	1,198,357R	1,137,175	+5.4
Total Exports	D	D		D	D							
Total Domestic *	125,153	121,657	+2.9	1,179,277R	1,133,340	+4.1						
Textile Treating & Coating Resins	D	D		D	D		D	D		D	D	
Paper Treating & Coating Resins	8,208	6,747	+21.7	83,134R	60,736	+36.9	8,085	7,574	+6.7	88,034R	71,269	+23.5
Molding Compounds	D	D		D	D		D	D		D	D	
Bonding & Adhesive Resins for:	95,946	93,067	+3.1	888,735R	857,657	+3.6	96,525	93,588	+3.1	897,669R	863,866	+3.9
Laminating	3,922	3,878	+1.1	36,937	33,832	+9.2	3,881	3,809	+1.9	38,075	33,698	+13.0
Plywood	5,372	5,551	-3.2	49,325R	53,084	-7.1	5,870	5,658	+3.7	51,709R	53,423	-3.2
Fibrous & Granulated Wood (Particle Board)	86,652	83,638	+3.6	802,473R	770,741	+4.1	86,774	84,121	+3.2	807,885R	776,745	+4.0
Protective Coatings (Straight & Modified)	7,931	6,672	+18.9	72,323R	64,151	+12.7	12,294	7,893	+55.8	91,984R	73,961	+24.4
All Other Uses (Includes Textile Treating & Coating Resins, Molding Compounds, and Exports)	13,068	15,171	-13.9	135,085R	150,796	-10.4	12,744	13,282	-4.1	120,670R	128,079	-5.8
PHENOLIC & OTHER TAR ACID RESINS, TOTAL	237,654	239,653	-0.8	2,144,191R	2,115,380	+1.4	235,454	239,511	-1.7	2,141,687R	2,076,581	+3.1
Total Exports	1,906	1,517	+25.6	18,655R	19,133	-2.5						
Total Domestic	235,748	238,136	-1.0	2,125,536R	2,096,247	+1.4						
Molding Compounds	19,607	21,901	-10.5	205,618R	189,530	+8.5	20,651	23,793	-13.2	228,574R	216,428	+5.6
Bonding & Adhesive Resins for:	208,830	211,768	-1.4	1,871,588R	1,865,655	+0.3	207,440	210,975	-1.7	1,862,334R	1,818,904	+2.4
Laminating	13,430	15,883	-15.4	126,666R	139,567	-9.2	11,891	15,353	-22.5	110,868R	119,586	-7.3
Coated & Bonded Abrasives	2,481	2,856	-13.1	20,484R	23,338	-12.2	2,517	2,696	-6.6	21,893R	22,635	-3.3
Friction Materials	2,874	3,216	-10.6	31,106R	26,615	+16.9	2,924	3,124	-6.4	30,991R	26,154	+18.5
Insulation Materials	28,106	38,159	-26.3	269,280R	292,087	-7.8	28,294	37,043	-23.6	267,496R	277,568	-3.6
Foundry & Shell Molding	7,010	6,721	+4.3	68,214R	57,481	+18.7	7,221	6,978	+3.5	70,172R	59,679	+17.6
Plywood	128,286	119,447	+7.4	1,118,928R	1,101,340	+1.6	127,281	119,466	+6.5	1,112,715R	1,085,431	+2.5
Fibrous & Granulated Wood	17,322	16,671	+3.9	157,078R	154,147	+1.9	17,205	16,626	+3.5	157,011R	150,738	+4.2
Resins Sold to Rubber Industry	3,106	2,354	+31.9	26,423R	22,064	+19.8	2,751	2,663	+3.3	29,463R	25,001	+17.8
All Other	6,215	6,461	-3.8	53,409R	49,016	+9.0	7,356	7,026	+4.7	61,725R	52,112	+18.4
Protective Coatings — Unmodified & Modified	2,297	1,823	+26.0	18,809R	15,692	+19.9	2,335	2,048	+14.0	20,895R	16,146	+29.4
Resins Sold to Rubber Industry, Non-Adhesive Uses #	D	D		D	D		D	D		D	D	
All Other Uses #	5,014	2,644	+89.6	29,521R	25,370	+16.4	5,028	2,695	+86.6	29,884	25,103	+19.0

(1) = Except phenolic resins which are reported on a gross weight basis

* = Domestic total includes exports.

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= Due to disclosure problem, All Other Uses includes Resins Sold to Rubber Industry, Non-Adhesive Uses.

R=REVISION

MONTHLY STATISTICAL REPORT
THE SOCIETY OF THE PLASTICS INDUSTRY, INC.
(In thousands of pounds, dry weight basis)

THERMOPLASTIC RESINS — OCTOBER 1984

RESIN KIND & USE	SALES & CAPTIVE USE						PRODUCTION					
	OCTOBER			YEAR-TO-DATE			OCTOBER			YEAR-TO-DATE		
	1984	1983	% Change	1984	1983	% Change	1984	1983	% Change	1984	1983	% Change
LOW-DENSITY POLYETHYLENE 0.940 & BELOW, TOTAL	778,134	644,482	+20.7	6,884,395R	6,623,436	+3.9	706,950	725,686	-2.6	7,028,843	6,676,399	+5.3
Total Exports	119,659	74,664	+60.3	782,668R	764,665	+2.4						
Total Domestic	658,475	569,818	+15.6	6,101,727R	5,858,771	+4.1						
Film (12 Mils & Below)	424,546	374,632	+13.3	3,828,429R	3,800,858	+0.7						
Sheet (Over 12 Mils)	D(3)	D(3)		D(3)	D(3)							
Injection Molding	55,096	42,748	+28.9	513,388R	552,088	-7.0						
Wire & Cable	27,387	26,886	+1.9	319,005R	254,486	+25.4						
Extrusion Coating	54,430	49,109	+10.8	526,673R	469,677	+12.1						
Blow Molding	2,845	2,922	-2.6	38,308R	35,134	+9.0						
Pipe & Conduit, Total	1,914	1,317	+45.3	22,428	19,676	+14.0						
Corrugated Pipe & Conduit	D	D		D	D							
Non-Corrugated Pipe & Conduit	D	D		D	D							
Other Extruded Products	12,967	8,248	+57.2	79,072	74,283	+6.4						
All Other Uses	79,290	63,956	+24.0	774,424R	652,564	+18.7						
HIGH-DENSITY POLYETHYLENE ABOVE 0.940, TOTAL	550,437	481,407	+14.3	4,942,029R	4,760,850	+3.8	534,817	539,043	-0.8	5,137,199R	4,767,754	+7.7
Total Exports	76,182	94,292	-19.2	576,494R	860,221	-33.0						
Total Domestic	474,255	387,115	+22.5	4,365,535R	3,900,629	+11.9						
Film (12 Mils & Below)	34,201	25,675	+33.2	307,229R	311,041	-1.2						
Sheet (Over 12 Mils)	11,890	4,995	+138.0	99,108R	61,157	+62.1						
Injection Molding	103,232	93,552	+10.3	1,000,286	977,043	+2.4						
Wire & Cable	11,133	10,913	+2.0	103,279	92,590	+11.5						
Extrusion Coating	D(2)	D(2)		D(2)	D(2)							
Blow Molding	188,523	156,838	+20.2	1,735,376R	1,503,923	+15.4						
Pipe & Conduit, Total	40,222	43,624	-7.8	399,244R	400,716	-0.4						
Corrugated Pipe & Conduit	10,472	19,397	-46.0	116,119	181,318	-36.0						
Non-Corrugated Pipe & Conduit	29,750	24,227	+22.8	283,125	219,398	+29.0						
Other Extruded Products	3,085	2,526	+22.1	38,008	33,538	+13.3						
All Other Uses	81,969	48,992	+67.3	683,005R	520,621	+31.2						

D = Disclosure
(2) = Included in Other Extruded Products
(3) = Included in Film

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Portions of the LD End Use Section are estimated.

MONTHLY STATISTICAL REPORT

THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

THERMOPLASTIC RESINS (In thousands of pounds, dry weight basis) OCTOBER 1984

RESIN KIND & USE	SALES & CAPTIVE USE						PRODUCTION					
	OCTOBER			YEAR-TO-DATE			OCTOBER			YEAR-TO-DATE		
	1984	1983	% Change	1984	1983	% Change	1984	1983	% Change	1984	1983	% Change
POLYPROPYLENE, TOTAL	427,608	358,677	+19.2	4,010,304R	3,678,225	+9.0	394,560	415,092	-4.9	4,129,743	3,667,797	+12.6
Total Exports	86,442	50,593	+70.9	621,052R	664,749	-6.6						
Total Domestic	341,166	308,084	+10.7	3,389,252R	3,013,476	+12.5						
Injection Molding	106,835	102,652	+4.1	1,104,084R	1,013,480	+8.9						
Appliances	11,218	9,314	+20.4	100,380R	79,400	+26.4						
Consumer Products	22,839	21,304	+7.2	246,801R	251,826	-2.0						
Rigid Packaging	30,223	25,484	+18.6	308,047R	294,488	+4.6						
Transportation	26,526	26,939	-1.5	275,156R	232,490	+18.4						
All Other Injection Molding	16,029	19,611	-18.3	173,700R	155,276	+11.9						
Blow Molding	7,793	8,802	-11.5	88,968R	73,331	+21.3						
Containers	D	D		D	D							
All Other Blow Molding	D	D		D	D							
Film (10 Mils & Below)	32,399	31,892	+1.6	334,557R	306,984	+9.0						
Sheet (Over 10 Mils)	5,493	2,782	+97.4	45,546R	25,954	+75.5						
Extrusion Coating	D	D		D	D							
Wire & Cable	D	D		D	D							
Fiber & Filaments	112,585	110,097	+2.3	1,130,829R	996,231	+13.5						
Pipe & Conduit	D	D		D	D							
Other Extruded Products #	8,549	6,454	+32.5	95,625R	85,488	+11.9						
Resellers & Compounders	52,472	31,603	+66.0	445,240	361,891	+23.0						
All Other Uses	15,040	13,802	+9.0	144,403R	150,117	-3.8						

Portions of the End Use Section are estimated.

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= Includes Extrusion Coating, Wire & Cable, Pipe & Conduit

R = Revision

D = Disclosure

SECTION I

MONTHLY STATISTICAL REPORT

THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

(In thousands of pounds, dry weight basis)

THERMOPLASTIC RESINS

OCTOBER 1984

RESIN KIND & USE	SALES & CAPTIVE USE						PRODUCTION					
	OCTOBER			YEAR-TO-DATE			OCTOBER			YEAR-TO-DATE		
	1984	1983	% Change	1984	1983	% Change	1984	1983	% Change	1984	1983	% Change
ACRYLONITRILE-BUTADIENE-STYRENE (ABS) RESINS, TOTAL	92,906	95,687	-2.9	924,335	837,913	+10.3	87,009	101,582	-14.3	949,339	816,310	+16.3
Total Exports												
Total Domestic												
Electrical & Electronic Uses												
Pipe, Conduit & Fittings												
Transportation												
Consumer & Institutional												
All Other Uses												
STYRENE-ACRYLONITRILE (SAN) RESINS, TOTAL	6,526	8,107	-19.5	76,410	75,835	+0.8	7,798	8,629	-9.6	85,251	79,520	+7.2
Total Exports	542	900	-39.8	9,823	8,767	+12.0						
Total Domestic	5,984	7,207	-17.0	66,587	67,068	-0.7						
OTHER STYRENE BASED POLYMERS, TOTAL 40% or more styrene	19,899	20,045	-0.7	203,535	191,394	+6.3	20,193	19,989	+1.0	219,663	175,151	+25.4
Total Export	D	D		D	D							
Total Domestic	19,899	20,045	-0.7	203,535	191,394	+6.3						
Molding & Extrusion	15,003	15,347	-2.2	147,047	141,076	+4.2						
Coatings	4,896	4,698	+4.2	56,488	50,318	+12.3						
POLYSTYRENE RESINS, TOTAL	338,894	295,816	+14.6	3,244,296	3,000,649	+8.1	341,083	329,247	+3.6	3,220,993	2,929,380	+10.0
Straight Polystyrene	175,409	156,620	+12.0	1,679,693	1,553,383	+8.1	181,061	164,406	+10.1	1,692,560	1,505,654	+12.4
Rubber-Modified Polystyrene	163,485	139,196	+17.4	1,564,603	1,447,266	+8.1	160,022	164,841	-2.9	1,528,433	1,423,726	+7.4
Total Exports	9,358	5,620	+66.5	80,278	66,167	+21.3						
Straight Polystyrene	4,844	2,255	+114.8	44,295	32,591	+35.9						
Rubber-Modified Polystyrene	4,514	3,365	+34.1	35,983	33,576	+7.2						
Total Domestic	329,536	290,196	+13.6	3,164,018	2,934,482	+7.8						
Molding	122,813	126,209	-2.7	1,214,086	1,261,352	-3.7						
Extrusion	132,764	101,684	+30.6	1,229,425	1,018,809	+20.7						
Expandable Polystyrene Beads	45,822	37,502	+22.2	404,557	369,317	+9.5						
All Other Uses	28,137	24,801	+13.5	315,950	285,004	+10.9						
Polystyrene End Uses, Total**	329,536	290,196	+13.6	3,164,018	2,934,482	+7.8						
Packaging	85,528	70,410	+21.5	802,656	747,862	+7.3						
Disposables	40,501	43,745	-7.4	450,314	382,359	+17.8						
Consumer and Institutional Products	48,231	39,588	+21.8	467,378	473,988	-1.4						
Electrical/Electronics	29,829	26,168	+14.0	254,810	234,298	+8.8						
Furniture, Furnishings, Building & Construction	13,152	15,113	-13.0	150,095	136,347	+10.1						
Expandable Polystyrene Beads	45,822	37,502	+22.2	404,557	369,317	+9.5						
All Other End Uses	66,473	57,670	+15.3	634,208	590,311	+7.4						

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**Portions of the End Use Section are estimated.

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MONTHLY STATISTICAL REPORT

THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

THERMOPLASTIC RESINS

(In thousands of pounds, dry weight basis)

OCTOBER 1984

RESIN KIND & USE	SALES & CAPTIVE USE						PRODUCTION					
	OCTOBER			YEAR-TO-DATE			OCTOBER			YEAR-TO-DATE		
	1984	1983	% Change	1984	1983	% Change	1984	1983	% Change	1984	1983	% Change
STYRENE BUTADIENE LATEXES, TOTAL Carboxylated, 45% styrene content and over	D	D		D	D		D	D		D	D	
OTHER STYRENE BASED LATEXES, TOTAL 50% or more styrene including butadiene latexes not carboxylated	D	D		D	D		D	D		D	D	
STYRENE BUTADIENE & OTHER STYRENE BASED LATEXES, TOTAL***	63,232	62,960	+0.4	631,372	585,728	+7.8	59,624	63,592	-6.2	628,319R	585,611	+7.3
Paper Treating	1,428	2,488	-42.6	20,469R	23,843	-14.2						
Textile Treating	1,934	1,426	+35.6	13,231R	16,657	-20.6						
Carpet Backing	24,160	27,206	-11.2	267,178R	251,121	+6.4						
All Other Uses (Including Exports & Paper Coating)	35,710	31,840	+12.2	330,494R	294,107	+12.4						
NYLON RESINS, TOTAL	33,136	31,595	+4.9	328,304R	268,629	+22.2	32,472	32,009	+1.4	343,758	259,440	+32.5
Total Exports	2,081	2,578	-19.3	21,904	20,164	+8.6						
Total Domestic	31,055	29,017	+7.0	306,400R	248,465	+23.3						
Injection Molding Grade	20,772	19,091	+8.8	204,602R	159,300	+28.4						
Extrusion Grade	8,519	7,727	+10.2	79,627	71,061	+12.1						
Resellers and Compounders	1,414	1,416	-0.1	16,691	12,953	+28.9						
All Other Uses	350	783	-55.3	5,480	5,151	+6.4						

***Old disclosure rules apply for Styrene Butadiene section. One company cannot be greater than 50% and no two companies can be greater than 75%. For disclosure rules covering other materials, see the back of the cover of the report.

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R = Revision
D = Disclosure

MONTHLY STATISTICAL REPORT

THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

THERMOPLASTIC RESINS

(In thousands of pounds, dry weight basis)

OCTOBER 1984

RESIN KIND & USE	SALES & CAPTIVE USE						PRODUCTION					
	OCTOBER			YEAR-TO-DATE			OCTOBER			YEAR-TO-DATE		
	1984	1983	% Change	1984	1983	% Change	1984	1983	% Change	1984	1983	% Change
POLYVINYL CHLORIDE & COPOLYMERS (DRY RESIN CONTENT), TOTAL	583,252	467,722	+24.7	5,549,984	5,205,377	+6.6	570,919	537,804	+6.2	5,607,471	5,191,294	+8.0
Homopolymer Resins Including Blending & Latex	520,897	408,687	+27.5	4,978,476	4,644,085	+7.2	508,692	477,539	+6.5	5,030,918	4,647,864	+8.2
Copolymer Resins Including Blending & Latex	27,055	24,760	+9.3	245,803	234,645	+4.8	26,579	25,429	+4.5	244,895	227,123	+7.8
Dispersion Resins	35,300	34,275	+3.0	325,705	326,647	-0.3	35,648	34,836	+2.3	331,658	316,307	+4.9
Total Exports	29,592	43,366	-31.8	281,513	441,680	-36.3						
Total Domestic	553,660	424,356	+30.5	5,268,471	4,763,697	+10.6						
Calendering, Total	57,573	54,873	+4.9	564,677	583,616	-3.2						
Flooring	17,403	12,695	+37.1	148,283	130,247	+13.8						
Textile	5,672	8,869	-36.0	76,814	89,839	-14.5						
All Other Calendering Uses	34,498	33,309	+3.6	339,580	363,530	-6.6						
Coating, Total	30,761	33,327	-7.7	290,429	297,139	-2.3						
Flooring	14,328	13,988	+2.4	114,554	122,138	-6.2						
Textile & Paper Coating	8,366	10,380	-19.4	93,330	97,436	-4.2						
Protective Coatings	3,848	3,997	-3.7	36,575	37,622	-2.8						
Adhesives & All Other Coating Uses	4,219	4,962	-15.0	45,970	39,943	+15.1						
Extrusion, Total	377,762	256,612	+47.2	3,481,437	2,993,272	+16.3						
Wire & Cable	36,086	26,355	+36.9	343,563	288,089	+19.3						
Film & Sheet	34,110	26,324	+29.6	277,141	257,796	+7.5						
Rigid Pipe & Tubing (Except Fittings)	251,414	159,650	+57.5	2,317,785	1,969,151	+17.7						
All Other Extrusions	56,152	44,283	+26.8	542,948	478,236	+13.5						
Molding, Total	38,436	37,153	+3.5	384,809	352,089	+9.3						
Bottles	14,193	16,082	-11.7	160,143	131,035	+22.2						
Sound Records	7,016	7,304	-3.9	63,878	66,854	-4.5						
Fittings (Rigid Pipe & Tubing)	9,498	7,575	+25.4	91,595	89,136	+2.8						
All Other Molding	7,729	6,192	+24.8	69,193	65,064	+6.3						
Paste Processes (Except Coating)	13,478	12,613	+6.9	145,793	135,517	+7.6						
Plastisol Formulation	6,926	7,781	-11.0	80,684	79,884	+1.0						
All Other	6,552	4,832	+35.6	65,109	55,633	+17.0						
Resellers & Compounders	14,224	10,257	+38.7	136,974	162,777	-15.9						
All Other Uses	21,426	19,521	+9.8	264,352	239,287	+10.5						

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MONTHLY STATISTICAL REPORT

THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

THERMOPLASTIC RESINS

(In thousands of pounds, dry weight basis)

OCTOBER 1984

RESIN KIND & USE	SALES & CAPTIVE USE						PRODUCTION					
	OCTOBER			YEAR-TO-DATE			OCTOBER			YEAR-TO-DATE		
	1984	1983	% Change	1984	1983	% Change	1984	1983	% Change	1984	1983	% Change
VINYL ACETATE MONOMER FOR POLYVINYL ACETATE, TOTAL	57,338	59,325	-3.3	590,982	579,652	+2.0						
Total Exports	273	540	-49.4	2,993	5,298	-43.5						
Total Domestic	57,065	58,785	-2.9	587,989	574,354	+2.4						
Emulsion Paints	16,867	17,009	-0.8	176,662	181,073	-2.4						
Adhesives, Caulks and Sealants	23,918	24,268	-1.4	238,789	228,806	+4.4						
Paper Treating & Paper Coating	8,720	10,555	-17.4	100,104	96,777	+3.4						
Textile Treating	2,571	2,121	+21.2	21,760	18,728	+16.2						
Non-Woven Binders	2,361	2,490	-5.2	26,051	26,008	+0.2						
All Other Uses	2,628	2,342	+12.2	24,623	22,962	+7.2						
POLYVINYL ALCOHOL, TOTAL #	12,377	11,635	+6.4	122,019	112,692	+8.3	14,219	10,583	+34.4	124,955	108,695	+15.0
Total Exports	2,305	2,306	0.0	23,906	19,245	+24.2						
Total Domestic	10,072	9,329	+8.0	98,113	93,447	+5.0						
OTHER VINYL RESINS*, TOTAL	15,620	17,102	-8.7	153,842	146,124	+5.3	15,374	15,726	-2.2	156,588	151,986	+3.0
Total Exports	3,947	4,461	-11.5	36,262	33,181	+9.3						
Total Domestic	11,673	12,641	-7.7	117,580	112,943	+4.1						
*Include only polyvinyl butyral, polyvinyl formal, and polyvinylidene chloride												
THERMOPLASTIC POLYESTER, TOTAL	71,185	72,593	-1.9	704,214	647,680	+8.7	79,253	74,055	+7.0	744,181R	641,249	+16.1
Total Exports	5,993	8,408	-28.7	77,489	75,186	+3.1						
Total Domestic	65,192	64,185	+1.6	626,725	572,494	+9.5						
PET Bottle Grades	45,302	44,288	+2.3	435,629	422,444	+3.1						
All Other Thermoplastic Polyester**	19,890	19,897	0.0	191,096	150,050	+27.4						

**Includes All Other PET and All Injection Molding Grades

= Includes imputed data

R=REVISION

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MONTHLY STATISTICAL REPORT
THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

THERMOSETTING & THERMOPLASTIC RESINS

RESIN CODING CLASSIFICATIONS	
EPOXY (UNMODIFIED) RESINS	EPOXY
POLYESTER (UNSATURATED) RESINS	PY
UREA RESINS	UREA
MELAMINE RESINS	MELA
PHENOLIC & OTHER TAR ACID RESINS	PHEN
LOW DENSITY POLYETHYLENE 0.940 & BELOW	LDPE
HIGH-DENSITY POLYETHYLENE ABOVE 0.940	HDPE
POLYPROPYLENE POLYMERS & COPOLYMERS	PP
ACRYLONITRILE-BUTADIENE-STYRENE (ABS) RESINS)	ABS
STYRENE-ACRYLONITRILE (SAN)	SAN
POLYSTYRENE RESINS	PS
STYRENE BUTADIENE LATEXES - carboxylated, 45% styrene content and over	SBL
OTHER STYRENE BASED LATEXES - over 50% styrene including styrene butadiene latexes not carboxylated	OTHER SBL
OTHER STYRENE BASED POLYMERS - over 40% styrene and used in molding and extrusion processes	OTHER SBP
NYLON RESINS	NYLON
POLYVINYL CHLORIDE & COPOLYMERS (DRY RESIN CONTENT)	PVC
POLYVINYL ACETATE	PVAc
POLYVINYL ALCOHOL	PVOH
OTHER VINYL RESINS	OTHER VINYL
THERMOPLASTIC POLYESTER	TPY

REPORTING CLASSIFICATIONS	
CATEGORY	CODE
Production	P
Domestic Sales	D
Export Sales	E

Above Legends Refer to the Following List of Reporting Companies by Resin Category.

SPI

MONTHLY STATISTICAL REPORT

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THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

LIST OF REPORTING COMPANIES BY RESIN CATEGORY

COMPANY	RESIN CATEGORY																			
	EPOXY	PY	UREA	MELA	PHEN	LDPE	HDPE	PP	ABS	SAN	PS	SBL	OTHER SBL	OTHER SBP	NYLON	PVC	PVAC	PVOH	OTHER VINYL	TPY
ACME RESINS					PDE															
ADVANCE COATINGS		PD																		
A & E PLASTICS											PDE									
AIR PRODUCTS & CHEMICALS																PDE	DE	PDE		
ALLIED CORPORATION							PDE								PDE					
ALPHA CHEMICAL CORPORATION		PDE																		
AMERICAN CYANAMID COMPANY			PDE	PDE																
AMERICAN HOECHST CORP.- PLASTICS DIVISION							PDE				PDE									
AMERICAN HOECHST CORP.- SOU-TEX DIVISION				PD	PD															
AMETEK, HAVEG DIVISION					PD															
AMERICAN SYNTHETIC RUBBER												PD								
AMOCO CHEMICAL CORPORATION							PDE	PDE			PDE									
ANDERSON DEVELOPMENT CO.														PD						
ARCO CHEMICAL											PDE			PDE						
ASHLAND CHEMICAL COMPANY		PDE			PDE															
AZS CORPORATION		PD																		
BADISCHE CORPORATION															PD					
BASF WYANDOTTE											PD									
BELDING CHEMICAL INDUSTRIES															PD					

SECTION I

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MONTHLY STATISTICAL REPORT

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THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

LIST OF REPORTING COMPANIES BY RESIN CATEGORY

COMPANY	RESIN CATEGORY																			
	EPOXY	PY	UREA	MELA	PHEN	LDPE	HDPE	PP	ABS	SAN	PS	SBL	OTHER SBL	OTHER SBP	NYLON	PVC	PVAC	PVOH	OTHER VINYL	TPY
BENDIX CORPORATION					PD															
BORDEN CHEMICAL COMPANY			PDE	PD	PDE											PDE	D			
BORG-WARNER CHEMICALS, INC.									PDE	PD										
CARGILL, INC.		PD																		
CELANESE CHEMICAL COMPANY																	D			
CELANESE ENGINEERING RESINS	PDE		PD	PD											PDE					PDE
CERTAIN-TEED PRODUCTS CORP.																PD				
CHEMBOND CORPORATION			PD	PD	PDE															
CHEMPLEX COMPANY						PDE	PDE													
CIBA-GEIGY CORP.	PDE																			
COOK PAINT & VARNISH COMPANY		PD																		
COSDEN OIL & CHEMICAL COMPANY								PDE			PDE									
CUSTOM RESINS, INC.															PD					
DAN RIVER, INC.			PD																	
DOW CHEMICAL U.S.A.	PDE	PDE				PDE	PDE		PDE	PDE	PDE	PD	PD	PDE					PDE	
E.I. DU PONT DE NEMOURS AND COMPANY						PDE	PDE							PD	PDE			PDE	PDE	PDE
EASTMAN CHEMICAL COMPANY						PDE		PDE												PDE
EL PASO CHEMICAL						PDE		PDE												

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THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

LIST OF REPORTING COMPANIES BY RESIN CATEGORY

COMPANY	RESIN CATEGORY																			
	EPOXY	PY	UREA	MELA	PHEN	LDPE	HDPE	PP	ABS	SAN	PS	SBL	OTHER SBL	OTHER SBP	NYLON	PVC	PVAC	PVOH	OTHER VINYL	TPY
EXXON CHEMICAL, AMERICAS						PDE	PDE	PDE												
FIRESTONE SYNTHETIC RUBBER & LATEX														PD						
FORMICA CORPORATION				PD	D															
FORMOSA PLASTICS CORPORATION																PD				
FREEMAN CHEMICAL CORPORATION		PD																		
H.B. FULLER COMPANY																	DE			
GAF CORPORATION																				PDE
PLASTICS DEPARTMENT GENERAL ELECTRIC COMPANY																				PDE
GENERAL TIRE & RUBBER												PD	PD			PD				
GEORGIA-PACIFIC CORPORATION			PDE		PDE						PD					PDE				
GLIDDEN COATINGS AND RESINS DIV. OF SCM		PD																		
B.F. GOODRICH CHEMICAL COMPANY										PDE						PDE				
GOODYEAR CHEMICAL DIVISION												PD	PD	PDE		PDE				PDE
DEWEY & ALMY DIVISION W.R. GRACE & COMPANY									PD			PD	PD				D		PDE	
GRIFFTEX CHEMICALS			PD	PD																
GUARDSMAN CHEMICALS, INC.			PD	PD																

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GULF OIL PRODUCTS COMPANY						PDE	PDE	PDE			PDE									
HERCULES, INC.														PDE						
HIMONT USA, INC.							PDE	PDE												
HOECHST FIBERS INDUSTRIES																				PDE
HUNTSMAN CHEMICAL CORPORATION											PD									
ICI AMERICAS		PDE																		
INMONT CORPORATION		PD			PD															
INTERPLASTIC CORPORATION		PD																		
IRONSIDES RESINS, INC.					PD															
KEYSOR-CENTURY CORPORATION																PD				
KOPPERS COMPANY		PD			PDE															
MAPLECHEM, INC.			PD	PD																
MASONITE CORPORATION					PD															
MOBIL CHEMICAL COMPANY						PDE	PDE				PDE									
MONSANTO POLYMER PRODUCTS CO.			PDE	PDE					PDE	PDE	PDE			PDE	PDE		DE	PDE	PDE	
MORTON INDUSTRIES													PD						PDE	

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	EPOXY	PY	UREA	MELA	PHEN	LDPE	HDPE	PP	ABS	SAN	PS	SBL	OTHER SBL	OTHER SBP	NYLON	PVC	PVAC	PVOH	OTHER VINYL	TPY
NATIONAL STARCH & CHEMICALS CORP																	D			
NORTHERN PETROCHEMICAL						PDE		PDE												
NYLON CORP. OF AMERICA															PD					
OCCIDENTAL CHEMICAL CORP					PDE											PDE				
OWENS-CORNING FIBERGLAS		PDE		PD	PD															
PERKINS INDUSTRIES, INC.			PD		PD															
PERSTORP COMPOUNDS, INC			PDE	PD																
PHILLIPS CHEMICAL COMPANY						DE	PDE	PDE						PDE						
PIONEER PLASTICS		PD	PD	PD	PD															
PLASLOK CORPORATION					PD															
PLASTICS ENGINEERING COMPANY					PDE															
PLASTICS MANUFACTURING CO.			PD	PD																
POLYMER APPLICATION, INC.					PD															
POLYREZ COMPANY, INC.					PDE															
POLYSAR LIMITED												PD	PD							
POLYSAR, INC.											PDE									
RAYMARK INDUSTRIES					PD															
REICHHOLD CHEMICALS, INC.	PDE	PDE	PDE	PDE	PDE							PD					D			

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COMPANY	RESIN CATEGORY																			
	EPOXY	PY	UREA	MELA	PHEN	LDPE	HDPE	PP	ABS	SAN	PS	SBL	OTHER SBL	OTHER SBP	NYLON	PVC	PVAC	PVOH	OTHER VINYL	TPY
RILSAN CORPORATION															PDE					
ROGERS CORPORATION					PDE															
ROHM AND HAAS COMPANY														PDE			D		PDE	PD
SHAKESPEARE COMPANY															PD					
SHELL CHEMICAL COMPANY	PDE							PDE												
SHERWIN WILLIAMS		PD																		
SHINTECH, INC																PDE				
SILMAR DIV. OF SOHIO CHEM. CO.		PDE																		
SOLTEX POLYMER CORP.							PDE	PDE												
TENNECO POLYMERS, INC.																PDE				
TEXTYRENE PLASTICS											PD									
UNION CARBIDE CORPORATION	PDE				PDE	PDE	PDE										DE			
UNION CHEMICAL												PD					D		PD	
UNIROYAL CHEMICAL					PDE															
U.S. INDUSTRIAL CHEMICAL						PDE	PDE										D			
USS CHEMICAL		PDE						PDE												
VALCHEM DIV. OF UNITED MERCHANTS, INC.			PD																	
VALITE DIVISION OF VALENTINE SUGARS, INC.					PD															
VANLEER CONTAINERS, INC.					PD															

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	EPOXY	PY	UREA	MELA	PHEN	LDPE	HDPE	PP	ABS	SAN	PS	SBL	OTHER SBL	OTHER SBP	NYLON	PVC	PVAC	PVOH	OTHER VINYL	TPY
VISTA POLYMERS																PDE				
VITITEK											PD									
WELLMAN, INC.															PDE					
TOTAL 106	6	19	16	15	28	12	14	12	4	4	15	8	6	10	11	13	12	3	7	8